


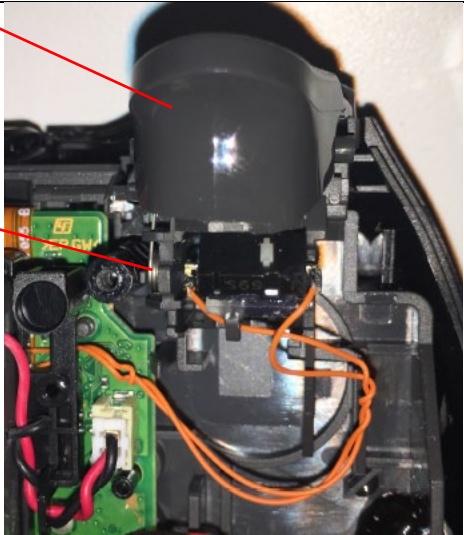



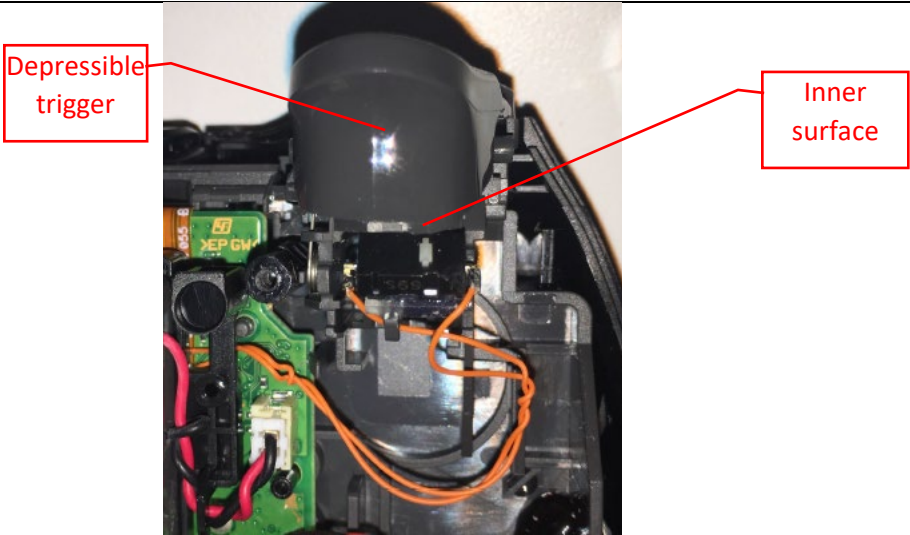
## Exhibit K:

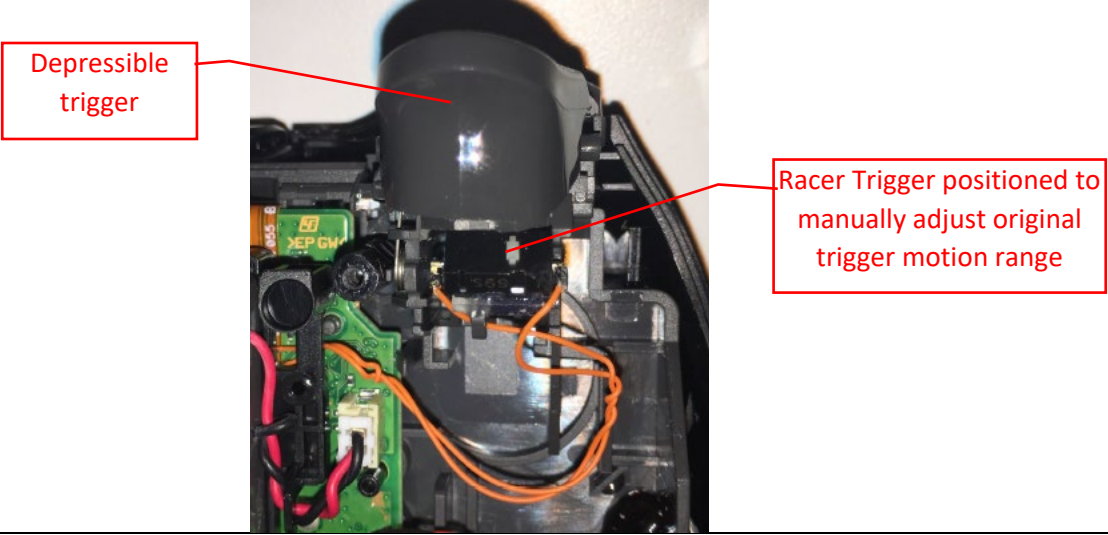
Exemplary Infringement of U.S.  
Patent No. 10,596,455 by PS4  
Controller with “Racer Trigger”

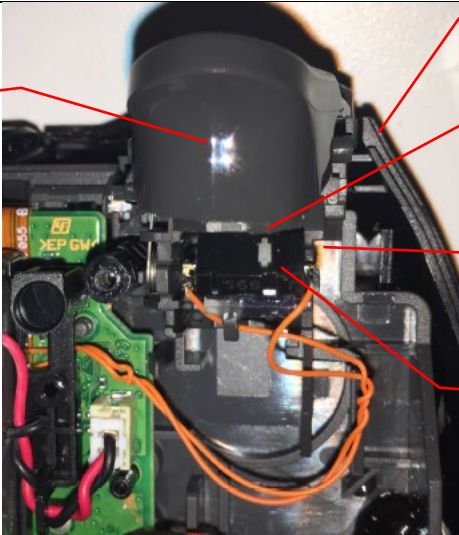
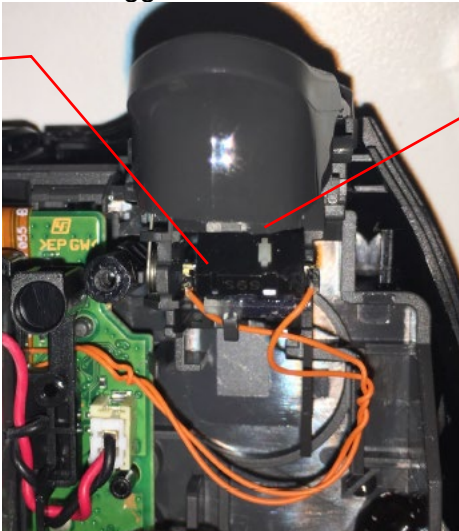
Claim 1 of US 10,596,455	
<p>An apparatus for providing a user input to a computer program for controlling the computer program, the apparatus comprising:</p>	<p>To the extent the preamble is limiting, the Battle Beaver products include this feature. The PS4 Pro Builder is an apparatus that provides user input to a computer program for controlling the computer program.</p> <div data-bbox="1024 477 1621 812"></div> <p>For example, the Racer Triggers provide an “input” for computer programs, such as “racing games” including “Rocket League.” <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a></p> <div data-bbox="716 945 1864 1183"><p><b>What are Racer Triggers?</b></p><p>Our <b>Racer Triggers</b> offer a variable input with an instant 100% click halfway through the trigger pull. We originally developed our Smart Triggers for First Person Shooter games, but as our popularity grew we soon began to redesign them for alternative genres.</p><p>At the time, some of our technicians were really into Rocket League™, so they worked to redesign our triggers to strike the balance between speed and functionality for racing games, and allow for a wider range of uses in other genres as well.</p></div>

<p>An outer case;</p>	<p>The PS4 controller includes an outer case.</p>  <p>A top-down photograph of a black Sony PS4 DualShock 4 controller. A red rectangular label with the text "Outer case" is positioned to the right of the controller, with a red line pointing to the right-hand grip.</p>
<p>At least one depressible trigger pivotally mounted to the apparatus and resiliently biased to a first position,</p>	<p>The controller includes at least one depressible trigger mounted to the apparatus, where the Trigger is resilient biased to a first position by a spring.</p>  <p>A bottom-up photograph of the same black PS4 controller. Two red rectangular labels with the text "Depressible trigger" are positioned on either side of the controller, with red lines pointing to the left and right triggers respectively.</p>

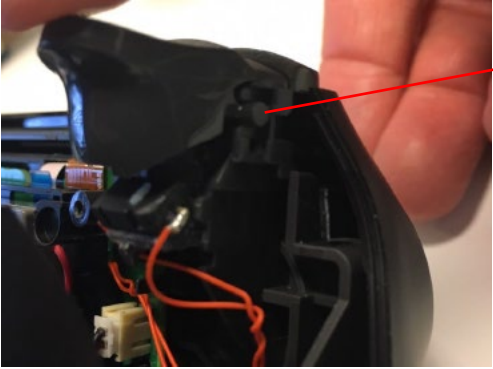
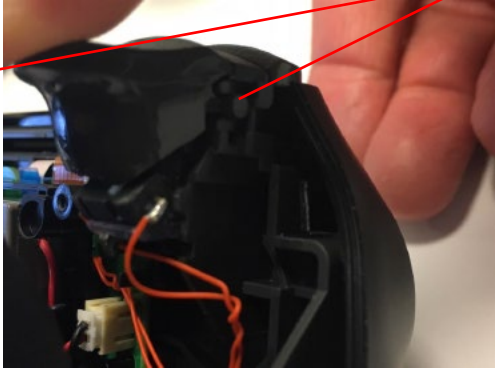
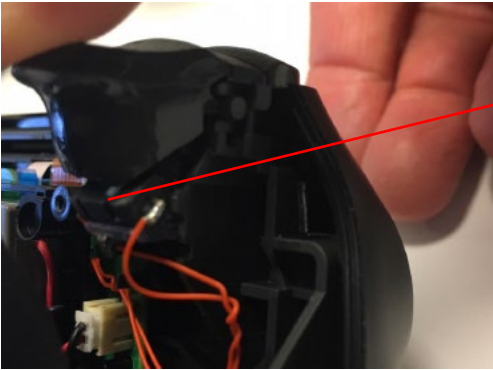
	<p>Depressible trigger</p> <p>Spring</p> 
<p>the depressible trigger having an outer surface configured for engagement during operation and extending outside the outer case, and an inner surface opposite the outer surface; and</p>	<p>The trigger includes an outer surface configured to engagement during operation and extending outside of the outer case.</p>  <p>Depressible trigger</p> <p>Outer surface for engagement outside of case</p> <p>Outer case</p> <p>The trigger includes an inner surface opposite the outer surface.</p>

	
<p>A mechanism for adjustment of a range of motion of the at least one depressible trigger,</p>	<p>Racer triggers include a mechanism that adjusts a range of motion of the trigger. The Racer Trigger modifies the as-manufactured travel path of the trigger to reduce travel time to actuate the button, i.e., shortens or adjusts the range of motion of the trigger.</p> <div data-bbox="716 889 1864 1130"><p><b>What are Racer Triggers?</b></p><p>Our <b>Racer Triggers</b> offer a variable input with an instant 100% click halfway through the trigger pull. We originally developed our Smart Triggers for First Person Shooter games, but as our popularity grew we soon began to redesign them for alternative genres.</p><p>At the time, some of our technicians were really into Rocket League™, so they worked to redesign our triggers to strike the balance between speed and functionality for racing games, and allow for a wider range of uses in other genres as well.</p></div>

	 <p>Depressible trigger</p> <p>Racer Trigger positioned to manually adjust original trigger motion range</p>
<p>Wherein, the mechanism is configured to be inserted into a void behind the inner surface of the depressible trigger wherein the void is defined by the outer case, and</p>	<p>The Racer Trigger is configured to be inserted into a void behind the inner surface of the trigger where the void is defined by the outer case.</p>

	 <p>Case</p> <p>Inner surface</p> <p>Void</p> <p>Racer Trigger positioned in void behind inner surface of trigger</p>
<p>Wherein the mechanism is configured such that when the mechanism is inserted, the inner surface of the depressible trigger contacts the mechanism to adjust the range of motion of the depressible trigger by changing a degree of rotation of the depressible trigger.</p>	<p>The Racer Trigger is configured such that when inserted into the void, the inner surface of the trigger contacts the Racer Trigger to adjust the range of motion of the trigger by changing a degree of rotation of the depressible trigger.</p>  <p>Racer Trigger positioned in void behind inner surface of trigger</p> <p>Inner surface</p>



	<p>by changing a degree of rotation of the depressible trigger.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DISENGAGED</p>  </div> <div style="text-align: center;"> <p>ENGAGED</p>  </div> </div> <div style="border: 1px solid red; padding: 5px; margin-top: 10px; color: red;"> <p>Racer Trigger changes a changing a degree of rotation of the depressible trigger.</p> </div>
<b>Dependent Claims of Claim 1</b>	
<p>7. The apparatus of claim 1, wherein the adjustment of the range of motion of the at least one depressible trigger comprises adjustment of an ending position of the at least one depressible trigger after depression by a user.</p>	 <div style="border: 1px solid red; padding: 5px; margin-top: 10px; color: red;"> <p>Racer Trigger adjusts an ending position of the at least one depressible trigger after depression by a user</p> </div>
<p>8. The apparatus of claim 1, wherein the computer program is a game program.</p>	<p>The PS4 controller provides inputs for game programs, such as "Rocket League".  <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a></p>



10. The apparatus of claim 1, wherein the apparatus comprises a game controller configured to operate with a computing device.	The PS4 controller provides inputs for game programs, such as "Rocket League". <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a>
<b>Dependent Claim of Dependent Claim 10</b>	
11. The apparatus of claim 10, wherein the computing device comprises a video gaming console.	The PS4 controller provides inputs for game programs, such as "Rocket League". <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a>
<b>Claim 12 of US 10,596,455</b>	
A trigger stop for use in an apparatus for supplying user inputs to a computer program for controlling the computer program, the trigger stop configured to adjust a range of motion of a depressible trigger,	<p>To the extent the preamble is limiting, the Racer Trigger for the PS4 controller is a trigger stop for use in an apparatus for supplying user inputs for controlling a computer program. The Racer Trigger is configured to adjust a range of motion of a depressible trigger.</p> <div data-bbox="1018 836 1617 1172" data-label="Image"> </div> <p>For example, the Racer Triggers provide an "input" for computer programs, such as "racing games" including "Rocket League." <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a></p>

#### What are Racer Triggers?

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The Racer Trigger is “a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%” In other words, the Racer Trigger manually adjusts the depressible range (linear travel) of the trigger to half that of a stock trigger.

<https://battlebeavercustoms.com/tools/builder/140>

#### Triggers

##### Left Trigger

No Trigger Adjustments Racer Triggers Smart Triggers

Racer Triggers: A unique trigger that is a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%

##### Right Trigger

No Trigger Adjustments Racer Triggers Smart Triggers

Racer Triggers: A unique trigger that is a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%

Wherein the depressible trigger comprises a first surface located outside an outer case of the apparatus and a second surface opposite the first surface, the second surface configured to move into a volume defined by the outer case when the trigger is depressed,

The trigger includes a first surface located outside of the case and a second surface configured to move into a volume defined by the outer case when the trigger is depressed.

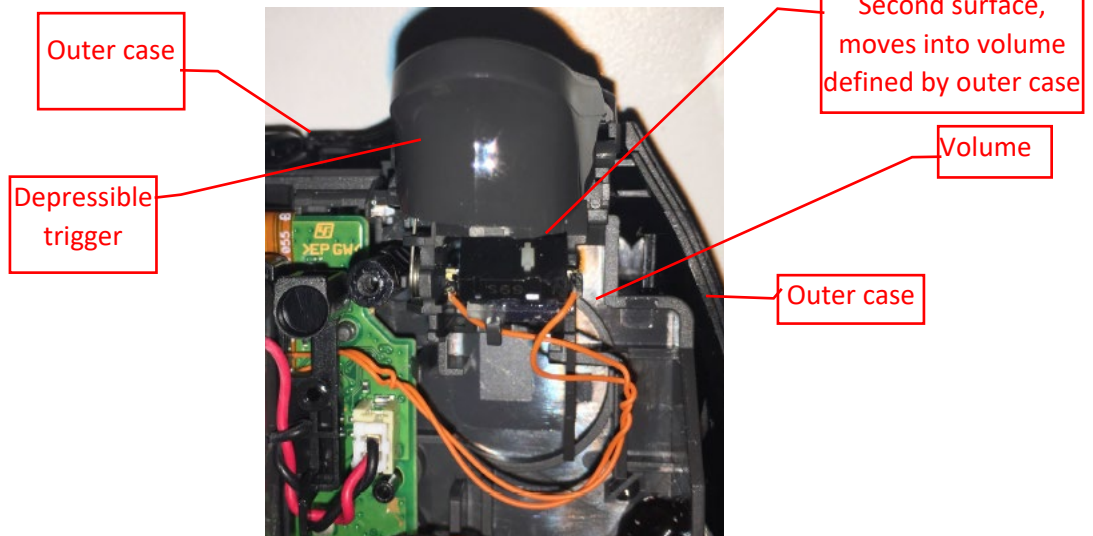


Depressible trigger

First surface

Outer case

The trigger includes a second surface opposite the first surface, the second surface configured to move into a volume defined by the outer case when the trigger is depressed.



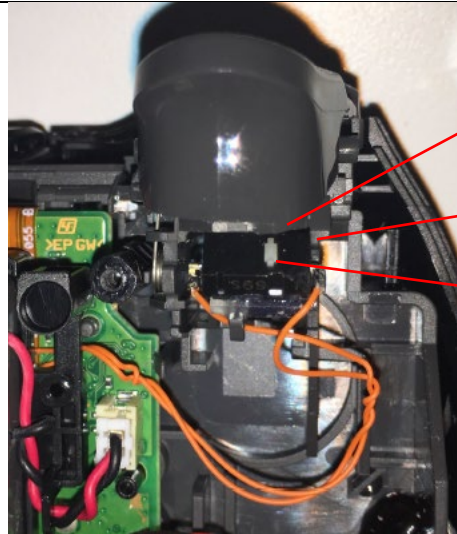
Outer case

Depressible  
triggerSecond surface,  
moves into volume  
defined by outer case

Volume

Outer case

Wherein the trigger stop is disposed within the volume defined by the outer case of the apparatus and in a pathway of the second surface of the depressible trigger and,



Second surface,  
moves into volume  
defined by outer case

Pathway

Trigger stop positioned in a  
pathway of second surface

The Racer Trigger is disposed within the volume defined by the outer case and within the pathway of the second surface of the trigger.

The Racer Trigger is “a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%” In other words, the Racer Trigger manually adjusts the depressible range (linear travel) of the trigger to half that of a stock trigger.

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## Triggers

### Left Trigger

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No Trigger Adjustments Racer Triggers Smart Triggers

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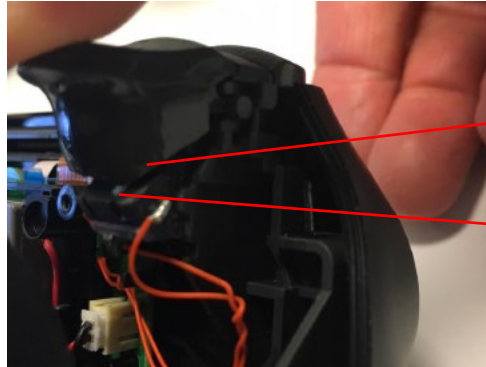
The Racer Trigger is positioned within a pathway of the trigger to reduce travel time to actuate the button, i.e., shortens the range of motion by adding a stop within the travel path. The Racer Trigger is positioned within the outer face of the apparatus.

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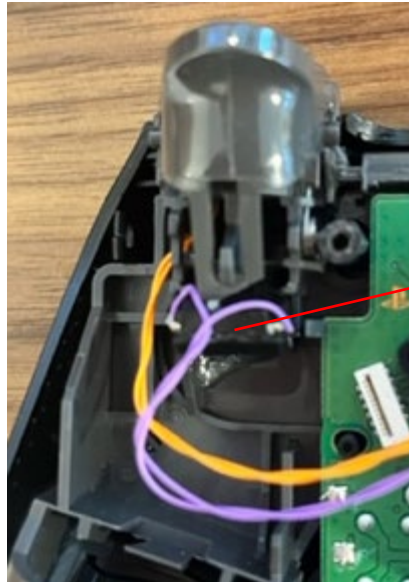
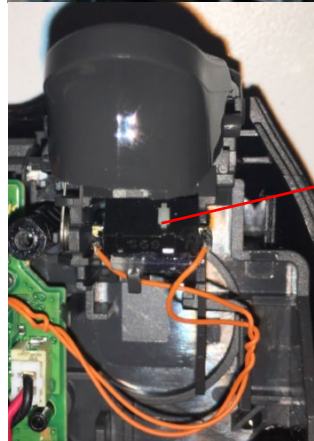
Wherein the trigger stop is configured to engage the inner surface of the depressible trigger of the apparatus to adjust a range of motion of the depressible trigger.

The Racer Trigger is configured to engage the inner surface of the trigger to adjust a range of motion.



Inner surface

Trigger stop engages inner surface  
to adjust range of motion

Dependent Claims of Claim 12	
<p>13. The trigger stop of claim 12, wherein a position of the trigger stop is manually adjustable to define at least a first and second range of motion of the depressible trigger.</p>	<p>The location of the stop is manually adjustable as Battle Beaver controls and can vary the height of the stop, such as by optionally removing a protrusion on the trigger to change the allowable linear range of the trigger.</p> <div data-bbox="709 409 1115 987"></div> <div data-bbox="1339 626 1675 760"><p>Smart Trigger positioned to manually adjust original trigger motion range</p></div> <div data-bbox="709 987 1020 1425"></div> <div data-bbox="1272 1097 1604 1230"><p>Racer Trigger option with trigger protrusion removed</p></div>



Options for trigger modifications include “Smart Trigger” and “Racer Trigger,” where the Racer Trigger allows 50% of the original trigger movement.

<https://battlebeavercustoms.com/tools/builder/63>

### Triggers

#### Left Trigger

No Trigger Adjustments

Racer Triggers

Smart Triggers

**Smart Triggers:** Permanently and Internally converts linear trigger into a button. Removes the progressive ramp up, and has the shortest and lightest trigger pull available. Works for most games.

#### Right Trigger

No Trigger Adjustments

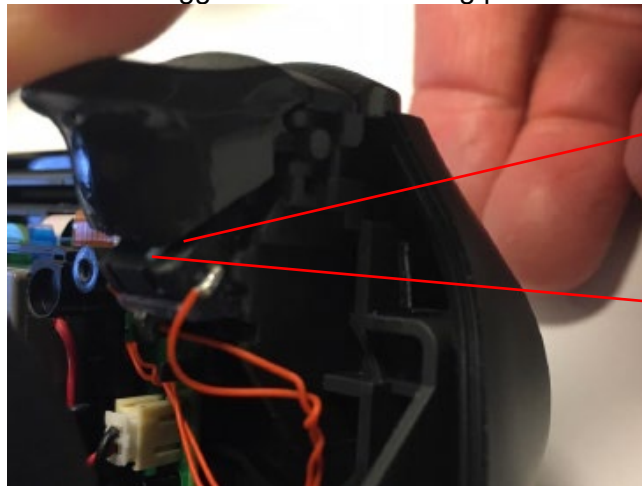
Racer Triggers

Smart Triggers

**Racer Triggers:** A unique trigger that is a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%


14. The trigger stop of claim 12, wherein the trigger stop defines an ending point for the range of motion of the depressible trigger.


The Racer Trigger acts as an ending point for the range of motion of the trigger.



Trigger abuts against Racer Trigger

Trigger stop defines ending point for range of motion

15. The trigger stop of claim 12, wherein the computer program is a game program.	The PS4 controller provides inputs for game programs, such as "Rocket League". <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a>
16. The trigger stop of claim 12, wherein the apparatus comprises a game controller configured to operate with a computing device.	The PS4 controller provides inputs for game programs, such as "Rocket League". <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a>
<b>Claim 17 of US 10,596,455</b>	
A game controller for controlling an electronic game, the game controller comprising:	<p>To the extent the preamble is limiting, the Battle Beaver products include this feature. The PS4 Pro is a game controller that controls an electronic game</p> <div data-bbox="1016 712 1785 1049">  <div data-bbox="1640 800 1787 907" style="border: 1px solid red; padding: 2px; color: red;">Game controller</div> </div> <p>For example, the Racer Triggers provide an "input" for computer programs, such as "racing games" including "Rocket League." <a href="https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers">https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers</a></p>

	<p><b>What are Racer Triggers?</b></p> <p>Our <b>Racer Triggers</b> offer a variable input with an instant 100% click halfway through the trigger pull. We originally developed our Smart Triggers for First Person Shooter games, but as our popularity grew we soon began to redesign them for alternative genres.</p> <p>At the time, some of our technicians were really into Rocket League™, so they worked to redesign our triggers to strike the balance between speed and functionality for racing games, and allow for a wider range of uses in other genres as well.</p>
A housing;	<p>The PS4 controller includes a housing</p>  <p>housing</p>

At least one depressible trigger at least partially disposed within the housing comprising a first surface configured to be engaged by a user to depress the at least one trigger and a second surface opposite the first surface, the second surface defining a pathway when the at least one trigger is depressed;

The trigger is at least partially disposed within the housing and includes a first surface configured to be engaged by a user to depress the at least one trigger.

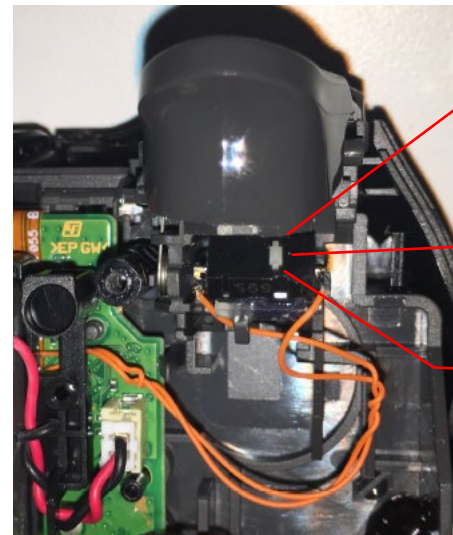


Depressible trigger

First surface

housing

The trigger includes a second surface opposite the first surface. The second surface defining a pathway when the at least one trigger is depressed.

Second surface,  
moves into volume  
defined by outer case

Pathway

Trigger stop positioned in a  
pathway of second surface

Electrical circuitry contained within the housing, wherein the at least one depressible trigger is in operational association with the electrical circuitry such that depression of the at least one depressible trigger causes electrical outputs of the electrical circuitry to control operation of the electronic game; and

The controller includes electrical circuitry contained within the housing. The trigger is in operational association with the electrical circuitry such that depression of the trigger causes electrical outputs to the electrical circuitry to control operation of the electronic game. The Racer Trigger includes a switch coupled to a PCB (e.g., electrical circuitry), where the switch is controlled by depression of the trigger and generates "inputs" to the PCB, which manipulates an electrical signal or output from the PCB to control the electronic games.

For example, the Racer Triggers provide an "input" for computer programs, such as "racing games" including "Rocket League." <https://battlebeavercustoms.com/tools/help-center#what-are-racer-triggers>

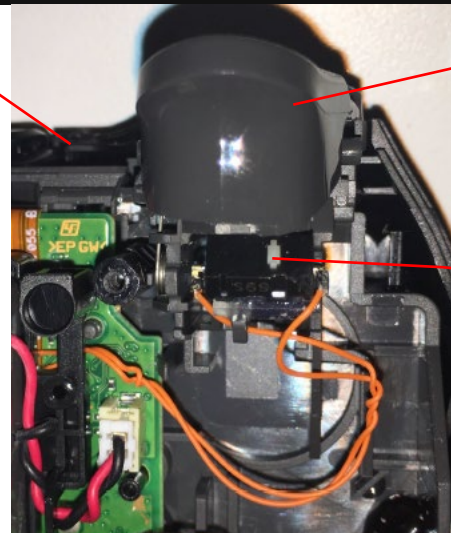
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Housing

Depressible trigger

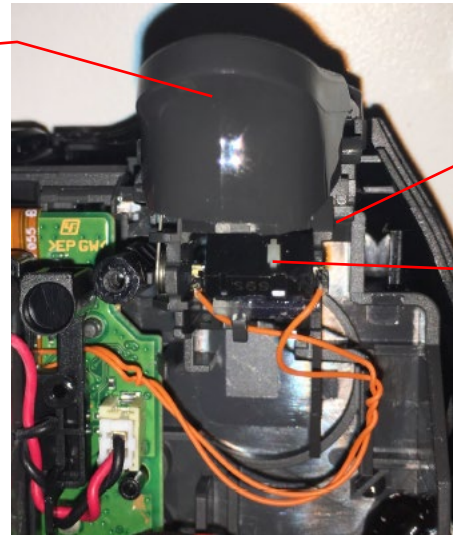
Electrical circuitry controlled by depression of trigger that manipulates electrical outputs of the circuitry



A trigger adjustment system disposed within the housing in the pathway of the second surface of the at least depressible trigger and in communication with the at least one depressible trigger, the trigger adjustment system configured to adjust a range of depressible motion of the at least one depressible trigger.

The Racer Trigger is a trigger adjustment system disposed within the housing in the pathway of the trigger and is in communication with the trigger.

Depressible  
trigger



Pathway

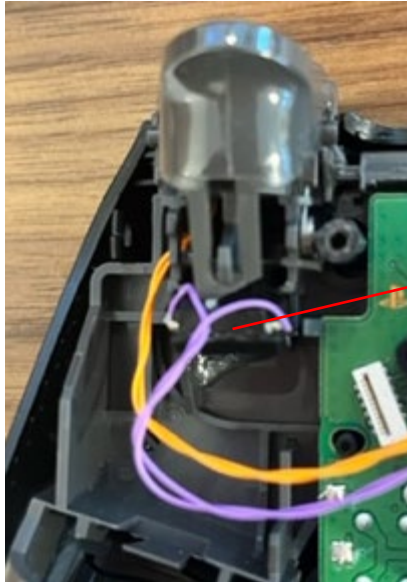
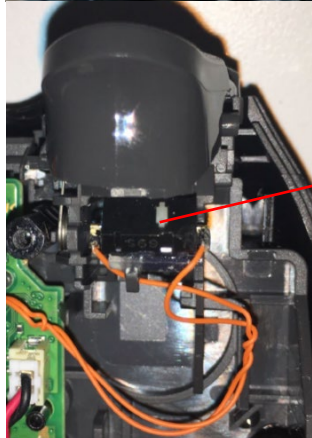
Racer Trigger  
positioned in  
pathway to adjust  
trigger motion range

The Racer Trigger modifies the as-manufactured travel path of the trigger to reduce travel time actuate the button, i.e., shortens or adjusts the range of motion of the trigger. The Racer Trigger is positioned within the outer case of the apparatus.

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Dependent Claims of Claim 17	
<p>18. The game controller of claim 17, wherein the trigger adjustment system is manually adjustable by a user to adjust the depressible range of motion of the at least one depressible trigger from a first range of motion to a second range of motion.</p>	<p>The location of the stop is manually adjustable as Battle Beaver controls and can vary the height of the stop, such as by optionally removing a protrusion on the trigger to change the allowable linear range of the trigger.</p> <div data-bbox="711 386 1115 964"></div> <div data-bbox="1339 602 1677 737"><p>Smart Trigger positioned to manually adjust original trigger motion range</p></div> <div data-bbox="711 964 1020 1399"></div> <div data-bbox="1272 1073 1604 1208"><p>Racer Trigger option with trigger protrusion removed</p></div>



Options for trigger modifications include “Smart Trigger” and “Racer Trigger,” where the Racer Trigger allows 50% of the original trigger movement.

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